

PATENT ABSTRACTS OF JAPAN

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(54) NOISE STOP ELEMENT

(57) Abstract:

PURPOSE: To attain miniaturization while improving high-frequency characteristics by mounting a thin-film inductance element formed so as to be wrapped with soft magnetic multilayer films, in which amorphous ferromagnetic layers and crystalline nonmagnetic layers are superposed alternately, into a vessel having the same terminal array as a package for an integrated circuit

CONSTITUTION: With soft magnetic multilayer films 21 and 22, amorphous magnetic films 23, main film compositions of which are composed of (CoZrNb)_{pi}F₄ and which mainly comprise a halogen element and a ferromagnetic element, and crystalline normagnetic films 24, film compositions of which consist of (CoZrNb)₄₀F₅₀, are superposed alternately, and they are formed in multilayer films having excellent high-frequency characteristics as a whole. Electric conductive films 25 are shaped from a coil-shaped Cu film, and the intermediate section of two windings and the outside of the whole are wrapped with an electric insulating film 26 composed of SiO₂. When the insulated and covered coil is wrapped with the soft mag-

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netic multilayer films 21 and 22, a thin-film industance and one line is format cordingly, the inductance element 13 is set a package having the same type as a package for tegrated circuit and constituted, thus manufact small-sized noise stop element having exceller frequency characteristics and being proper to by combination with the integrated circuit.

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